

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P857071

Luminaire Tested: **LX4C15D010 EX4C159850 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C15D010 EX4C159850 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

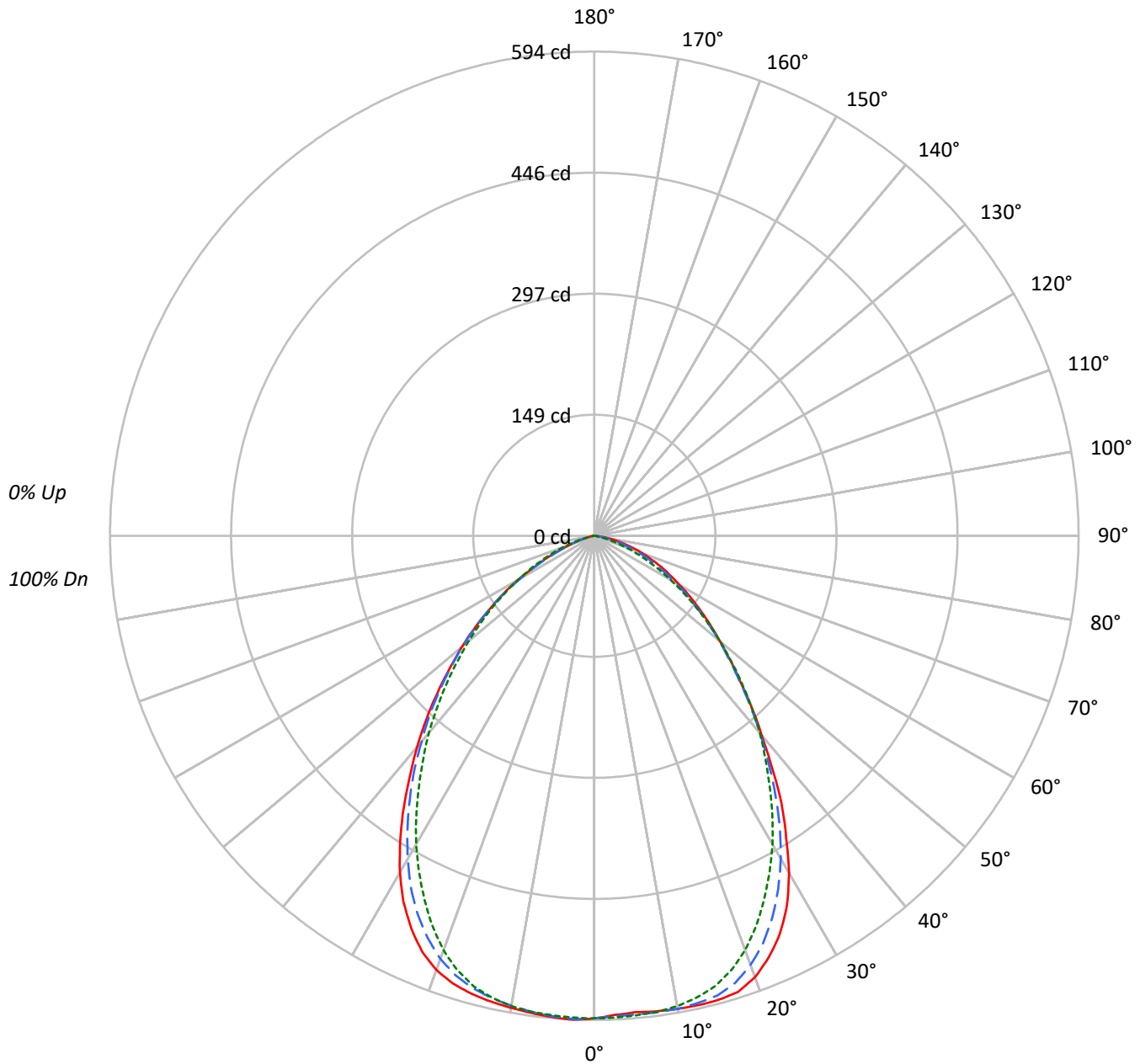
Lumens per Lamp: N/A
Luminaire Lumens: 1135.2 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101	109	105	102	99		101	99	96		97	95	93		94	92	91
2	103	96	91	86	101	95	89	85		91	87	83		88	84	81		85	82	80
3	95	87	80	74	93	85	79	74		82	77	72		80	75	71		77	73	70
4	88	78	71	65	86	77	70	65		75	69	64		72	67	63		70	66	62
5	82	71	63	57	80	70	63	57		68	61	57		66	60	56		64	59	55
6	76	65	57	51	75	64	56	51		62	56	51		61	55	50		59	54	50
7	71	59	51	46	70	59	51	46		57	50	46		56	50	45		54	49	45
8	67	55	47	42	65	54	47	42		53	46	41		52	46	41		50	45	41
9	63	51	43	38	61	50	43	38		49	42	38		48	42	38		47	41	37
10	59	47	40	35	58	46	39	35		45	39	35		45	39	35		44	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	72742	72742	72742
5°	72341	72822	73093
10°	73527	73090	73365
15°	74964	72764	73985
20°	75344	70716	74102
25°	73036	66787	72033
30°	67780	61992	67653
35°	60021	56226	61160
40°	51175	50646	54222
45°	43956	44460	47240
50°	38378	38474	40500
55°	33906	32492	33585
60°	29706	26487	26389
65°	26308	20552	18314
70°	22450	14117	10848
75°	18180	7642	4937
80°	12452	1910	1273
85°	3806	564	564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	5.0
10°-20°	162.9	14.4
20°-30°	235.4	20.7
30°-40°	243.3	21.4
40°-50°	201.1	17.7
50°-60°	138.8	12.2
60°-70°	72.7	6.4
70°-80°	22.9	2.0
80°-90°	1.9	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	454.6	40.0
0°-40°	697.9	61.5
0°-60°	1037.7	91.4
0°-90°	1135.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1135.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	592	592	592	592	592	
5°	587	589	590	592	593	56
15°	589	584	572	575	582	166
25°	539	517	493	512	531	246
35°	400	387	375	394	408	248
45°	253	252	256	268	272	197
55°	158	153	152	156	157	142
65°	90	82	71	59	63	90
75°	38	30	16	11	10	41
85°	3	1	0	0	0	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1
2.5°	588.4	588.5	588.5	589.0	589.0	589.0	589.3	589.3	589.4	589.7	589.9
5°	586.6	586.6	587.0	587.2	587.7	587.9	588.4	588.5	589.0	589.3	589.4
7.5°	588.4	588.4	588.5	588.8	588.8	589.0	589.0	589.3	589.4	589.7	589.7
10°	589.4	589.4	589.4	589.4	589.7	589.7	589.7	589.4	589.4	589.4	589.3
12.5°	589.9	589.9	589.7	589.4	589.7	589.4	589.4	588.8	588.4	587.9	587.2
15°	589.4	589.4	589.3	589.0	588.8	588.4	588.1	587.0	586.1	584.8	583.9
17.5°	586.6	586.1	585.7	585.3	584.4	583.6	583.2	581.2	579.6	577.4	575.0
20°	576.3	575.9	575.2	574.1	573.0	572.1	570.8	567.9	566.3	563.0	560.5
22.5°	559.7	559.2	559.4	557.4	555.2	553.9	553.0	550.6	547.9	543.6	540.9
25°	538.8	537.5	537.5	534.3	533.2	532.3	531.2	528.3	524.3	520.5	516.9
27.5°	511.6	509.8	508.9	508.5	505.9	503.8	502.3	500.1	496.7	493.4	488.5
30°	477.8	477.6	476.5	474.5	472.4	471.6	469.9	466.0	462.9	460.5	457.4
32.5°	438.0	437.8	437.8	437.8	436.5	436.2	433.6	431.6	429.1	425.4	423.3
35°	400.2	400.0	400.2	396.9	396.0	395.3	395.1	393.8	390.4	388.6	386.9
37.5°	357.5	358.2	357.8	356.9	357.9	356.0	357.5	354.6	353.3	352.9	350.9
40°	319.1	320.8	319.1	319.3	320.4	318.4	318.4	318.0	317.1	316.7	316.2
42.5°	286.2	283.9	285.3	284.2	285.3	284.6	283.5	284.2	284.4	283.5	283.3
45°	253.0	253.4	253.9	253.3	253.3	252.6	254.3	253.3	253.3	253.4	251.9
47.5°	226.1	225.4	225.9	225.4	225.7	225.3	225.7	225.9	225.4	225.4	224.1
50°	200.8	200.4	201.9	200.6	200.6	200.4	200.6	200.1	199.5	199.5	199.9
52.5°	178.8	177.9	177.6	178.8	177.2	177.2	177.5	177.0	176.1	175.7	174.5
55°	158.3	158.1	158.3	157.4	156.9	156.9	155.9	155.4	155.2	154.1	153.4
57.5°	139.2	138.5	138.8	138.5	137.6	137.4	136.5	136.5	135.6	134.7	133.7
60°	120.9	120.9	121.6	120.7	120.0	119.6	119.1	118.7	117.2	115.7	114.3
62.5°	104.7	105.0	104.7	104.1	103.6	103.2	102.7	101.4	100.1	99.2	97.6
65°	90.5	90.2	89.6	89.2	88.0	88.0	87.1	86.5	84.9	83.6	82.0
67.5°	75.8	75.4	75.4	75.4	74.0	73.8	73.4	72.1	70.7	68.9	67.6
70°	62.5	63.0	62.2	61.6	60.9	60.7	60.0	58.7	57.2	55.4	54.2
72.5°	49.8	50.3	49.6	49.4	48.1	47.6	47.4	46.3	44.5	43.3	41.6
75°	38.3	38.4	38.0	37.5	36.7	36.5	35.3	34.4	33.4	31.6	30.1
77.5°	27.6	27.1	27.1	26.2	25.3	25.3	25.1	23.8	22.2	20.9	19.5
80°	17.6	17.3	16.7	16.2	15.6	15.3	15.2	14.0	12.9	12.0	11.1
82.5°	8.9	8.6	8.5	8.2	7.8	7.3	7.6	6.7	6.2	5.4	4.6
85°	2.7	2.9	2.9	2.7	2.4	2.4	2.4	2.2	1.8	1.5	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1
2.5°	590.2	590.3	590.5	590.8	590.8	591.0	591.2	591.4	591.7	591.7	591.8
5°	589.7	590.2	590.2	590.3	590.3	590.3	590.5	590.5	590.5	590.5	590.8
7.5°	589.9	589.9	589.9	589.7	589.7	589.4	589.4	589.4	589.0	589.0	589.0
10°	588.8	588.5	588.4	587.9	587.7	587.5	587.0	586.6	586.1	585.9	585.4
12.5°	586.6	585.7	584.8	583.9	583.5	583.2	582.3	581.7	581.0	580.3	579.9
15°	582.1	580.8	579.2	577.4	577.0	576.5	575.0	573.7	572.8	572.1	571.0
17.5°	573.2	570.5	568.8	566.1	565.0	564.6	562.1	560.7	559.2	558.8	557.9
20°	557.4	555.0	551.6	549.2	547.9	546.5	544.5	542.7	540.9	540.9	539.9
22.5°	537.6	534.5	530.3	527.2	526.9	524.3	522.6	520.5	519.9	518.5	518.5
25°	512.8	510.1	505.4	502.8	501.4	500.7	497.9	495.2	493.8	492.7	493.6
27.5°	485.2	481.2	477.6	474.2	473.2	471.8	469.1	468.1	465.6	465.4	465.1
30°	453.6	449.6	446.0	444.4	442.2	441.1	439.1	437.8	437.0	437.0	436.5
32.5°	420.5	416.9	415.1	411.8	410.6	409.1	407.8	406.5	406.9	406.5	406.6
35°	384.7	383.8	380.4	378.5	378.5	378.2	376.0	375.1	374.6	374.9	376.0
37.5°	350.6	348.0	345.7	344.4	345.5	344.2	343.9	343.9	345.3	344.4	346.2
40°	314.4	314.2	313.3	313.7	314.0	312.4	312.8	313.1	314.0	315.8	315.9
42.5°	282.9	282.6	282.6	282.6	282.1	281.3	282.1	283.8	283.5	284.8	286.0
45°	252.4	251.9	252.8	252.2	253.4	253.9	253.3	253.7	255.0	255.9	257.7
47.5°	224.5	224.5	224.8	225.3	223.9	225.0	225.4	226.3	227.0	227.5	228.4
50°	198.8	198.8	198.3	198.3	198.3	199.0	198.1	199.2	199.5	201.3	202.3
52.5°	175.0	173.9	174.5	174.1	173.2	172.7	173.2	173.4	174.8	175.2	176.6
55°	152.3	152.3	150.5	150.1	150.8	150.5	150.3	150.3	151.0	151.7	152.8
57.5°	132.3	131.0	129.7	129.4	128.8	128.9	128.9	128.8	128.3	128.5	128.8
60°	113.4	112.5	110.5	110.5	110.3	110.0	109.0	108.7	107.6	107.8	106.9
62.5°	96.0	95.6	92.9	92.0	92.0	91.4	90.2	90.1	88.5	88.5	87.6
65°	80.5	79.2	77.6	76.1	76.1	75.2	74.5	72.5	71.3	70.7	69.4
67.5°	66.3	64.3	62.7	61.4	60.5	60.3	58.7	57.3	55.6	54.5	52.4
70°	52.4	50.9	49.4	48.1	47.2	46.3	44.7	42.7	41.4	39.3	38.0
72.5°	39.6	38.3	36.9	35.1	34.0	33.4	31.8	30.1	27.8	26.5	24.7
75°	28.4	26.9	25.1	23.5	22.9	22.2	20.4	19.1	17.6	16.1	14.3
77.5°	18.5	16.7	15.3	13.6	13.4	12.9	11.1	9.8	8.6	7.8	6.7
80°	9.8	8.9	7.8	6.7	6.2	5.5	4.6	4.0	3.3	2.7	2.2
82.5°	4.2	3.6	2.9	2.4	2.2	2.0	1.5	1.3	1.1	1.1	0.9
85°	1.1	0.9	0.9	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.2	0.2	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1
2.5°	592.1	592.3	592.6	592.6	592.7	593.0	593.0	593.2	593.5	593.6	593.6
5°	591.0	591.0	591.0	591.2	591.2	591.2	591.2	591.7	591.7	591.8	592.1
7.5°	588.8	588.8	588.8	588.8	588.5	588.8	588.5	588.5	589.0	589.3	589.4
10°	585.3	585.0	585.0	584.8	584.8	584.8	585.0	585.3	585.4	585.7	586.3
12.5°	579.6	579.5	579.5	579.2	579.2	579.5	579.6	580.1	581.0	581.4	582.3
15°	570.8	570.5	570.8	571.0	571.4	572.1	572.8	573.5	574.7	575.9	577.0
17.5°	557.9	558.1	558.3	558.8	559.4	560.3	562.1	563.8	565.5	567.2	569.0
20°	540.0	540.9	541.2	542.7	543.2	545.2	547.2	549.8	552.3	554.6	557.0
22.5°	518.7	519.4	520.3	522.1	523.2	525.9	528.3	531.4	534.1	537.0	540.5
25°	494.5	494.7	497.4	497.4	500.1	502.3	505.2	508.5	512.5	516.3	518.7
27.5°	466.9	468.1	470.0	470.9	472.9	476.5	479.0	483.0	487.0	490.3	493.0
30°	438.0	438.9	442.2	442.7	444.3	447.4	450.7	454.5	457.6	461.4	463.8
32.5°	407.5	410.0	412.0	413.6	414.0	418.7	420.5	423.1	426.7	430.4	432.9
35°	378.0	379.1	382.0	382.9	384.3	386.9	390.4	392.6	394.4	396.9	399.8
37.5°	346.6	350.0	350.6	353.3	353.8	356.2	357.9	360.6	362.8	365.1	365.5
40°	317.5	318.6	321.0	321.7	322.2	325.5	327.7	328.4	329.5	331.5	334.2
42.5°	287.9	289.0	291.7	291.1	293.0	294.6	295.7	298.4	299.5	300.2	300.2
45°	258.8	259.2	261.0	261.9	263.1	264.0	265.9	267.3	267.7	269.8	270.4
47.5°	231.1	231.5	232.8	234.3	233.9	235.1	237.2	237.9	238.1	239.4	240.1
50°	203.7	204.7	206.5	206.1	207.4	208.1	210.1	210.5	210.5	210.8	211.0
52.5°	178.1	179.0	179.4	179.9	180.6	181.6	182.5	182.1	183.0	183.9	183.3
55°	152.8	153.4	154.5	155.0	155.0	155.2	154.7	156.8	155.9	155.6	155.9
57.5°	129.7	128.8	128.5	129.7	130.1	129.8	129.2	130.1	130.1	129.7	128.9
60°	107.2	106.5	106.3	106.5	105.6	105.0	105.4	105.0	103.8	103.4	103.6
62.5°	86.7	86.1	84.3	84.3	83.8	83.6	81.9	82.0	81.1	79.8	80.3
65°	67.8	66.1	65.2	64.9	63.4	62.1	61.6	60.0	58.7	58.5	58.7
67.5°	50.9	49.0	47.4	46.7	45.8	44.7	43.2	41.8	42.3	42.0	42.9
70°	35.3	34.0	32.5	31.4	31.8	30.5	29.6	29.6	29.8	30.1	30.5
72.5°	23.5	21.8	21.1	20.4	20.0	19.1	19.5	19.5	19.4	19.5	19.1
75°	13.4	12.5	11.8	11.6	11.1	11.1	11.1	11.1	10.9	10.7	10.7
77.5°	6.0	5.5	5.4	5.1	5.1	5.1	4.9	4.6	4.6	4.6	4.5
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	0.9	0.9	1.1	1.1	1.1	0.9	1.1	1.1	0.9	0.9	1.1
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.0	0.2	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1
2.5°	593.9	594.1	594.1	594.1	594.3	594.3	594.3	594.3
5°	592.3	592.6	592.6	592.6	592.7	592.7	592.7	592.7
7.5°	589.7	589.9	589.9	590.2	590.2	590.3	590.3	590.5
10°	586.6	587.0	587.2	587.5	587.7	587.9	587.9	588.1
12.5°	583.2	583.6	583.9	584.4	584.8	585.0	585.3	585.4
15°	578.3	579.2	579.6	579.9	580.8	581.2	581.4	581.7
17.5°	570.5	572.3	573.0	573.5	574.3	575.2	575.9	576.1
20°	559.4	561.4	562.3	563.4	564.7	565.9	566.3	566.8
22.5°	543.9	546.1	547.4	548.8	549.8	551.0	552.8	552.1
25°	521.7	525.4	526.9	527.6	530.1	531.4	532.3	531.4
27.5°	496.7	498.9	500.3	501.9	503.7	505.0	505.4	506.7
30°	466.7	470.5	470.3	471.8	474.0	475.4	475.8	476.9
32.5°	435.6	437.4	438.6	438.5	439.4	441.8	440.9	442.9
35°	402.4	402.7	404.9	404.7	406.5	406.5	406.5	407.8
37.5°	367.1	369.8	368.6	371.3	370.4	371.1	371.1	371.5
40°	334.8	335.7	335.7	336.6	337.3	336.6	337.1	338.1
42.5°	301.5	302.4	302.7	302.2	302.8	304.8	303.3	304.6
45°	270.4	271.0	271.9	271.3	272.3	271.7	272.3	271.9
47.5°	241.0	240.8	240.6	242.4	240.8	241.0	241.9	240.3
50°	211.0	212.3	211.4	212.1	212.6	212.6	211.9	211.9
52.5°	184.3	184.1	183.4	184.1	183.7	183.9	184.3	183.9
55°	156.8	157.7	157.2	156.9	157.2	157.2	158.6	156.8
57.5°	129.7	129.2	129.8	131.4	129.8	131.0	131.6	131.9
60°	103.8	103.8	105.1	104.5	105.8	106.9	107.8	107.4
62.5°	79.2	80.3	80.7	81.0	82.3	83.2	83.2	82.9
65°	58.7	60.3	60.3	61.2	61.6	61.6	62.1	63.0
67.5°	43.3	43.3	43.6	44.1	43.8	43.8	44.2	44.5
70°	30.2	29.8	30.5	30.2	30.2	30.1	30.2	30.2
72.5°	19.1	19.1	19.4	19.1	18.6	18.9	18.9	19.4
75°	10.3	10.7	10.3	10.3	10.4	10.0	10.3	10.4
77.5°	4.2	4.2	4.2	4.2	4.2	4.0	4.0	4.0
80°	2.0	2.0	2.0	2.0	2.0	2.0	1.8	1.8
82.5°	0.9	1.1	0.9	1.1	0.9	0.9	0.9	0.9
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)